



AMENDMENT TO CLAIMS

1. (Original) A perfluoropolyether comprising perfluoroalkyl radical end groups wherein said radical has at least 3 carbon atoms per radical and is substantially free of perfluoromethyl and perfluoroethyl, and a 1,2-bis(perfluoromethyl)ethylene diradical, $-\text{CF}(\text{CF}_3)\text{CF}(\text{CF}_3)-$, is absent in the molecule of said perfluoropolyether.

2. (Original) A perfluoropolyether according to claim 1 wherein said perfluoroalkyl radical has 3 to 6 carbon atoms per radical.

3. (Original) A perfluoropolyether according to claim 1 wherein said perfluoropolyether has the formula of $\text{C}_r\text{F}_{(2r+1)}-\text{A}-\text{C}_r\text{F}_{(2r+1)}$; each r is independently 3 to 6; if $r = 3$, both end groups $\text{C}_r\text{F}_{(2r+1)}$ must be a propyl radical; A is selected from the group consisting of $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_w$, $\text{O}-(\text{C}_2\text{F}_4-\text{O})_w$, $\text{O}-(\text{C}_2\text{F}_4-\text{O})_x(\text{C}_3\text{F}_6-\text{O})_y$, $\text{O}-(\text{CF}_2\text{CF}_2\text{CF}_2-\text{O})_w$, $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_x(\text{CF}_2\text{CF}_2-\text{O})_y-(\text{CF}_2-\text{O})_z$, and combinations of two or more thereof; w is 4 to 100; and x , y , and z are each independently 1 to 100.

4. (Original) A composition comprising a perfluoropolyether, which comprises perfluoroalkyl radical end groups wherein said radical has at least 3 carbon atoms per radical and is substantially free of perfluoromethyl and perfluoroethyl, and 1,2-bis(perfluoromethyl)ethylene diradical, $-\text{CF}(\text{CF}_3)\text{CF}(\text{CF}_3)-$, is absent in the molecule of said perfluoropolyether.

5. (Original) A composition according to claim 4 wherein said perfluoroalkyl radical has 3 to 6 carbon atoms per radical.

6. (Original) A composition according to claim 4 wherein said perfluoropolyether has the formula of $\text{C}_r\text{F}_{(2r+1)}-\text{A}-\text{C}_r\text{F}_{(2r+1)}$; each r is independently 3 to 6; if $r = 3$, both end groups $\text{C}_r\text{F}_{(2r+1)}$ must be a propyl radical; A is selected from the group consisting of $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_w$, $\text{O}-(\text{C}_2\text{F}_4-\text{O})_w$, $\text{O}-(\text{C}_2\text{F}_4-\text{O})_x(\text{C}_3\text{F}_6-\text{O})_y$, $\text{O}-(\text{CF}_2\text{CF}_2\text{CF}_2-\text{O})_w$, $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_x(\text{CF}_2\text{CF}_2-\text{O})_y-(\text{CF}_2-\text{O})_z$, and combinations of two or more thereof; w is 4 to 100; and x , y , and z are each independently 1 to 100.

7. (Original) A composition according to claim 4 further comprising a thickener and said perfluoropolyether is present in said composition in the range of from about 0.1 to about 50 weight % based on said composition.

8. (Original) A composition according to claim 5 further comprising a thickener and said perfluoropolyether is present in said composition in the range of from about 0.1 to about 50 weight % based on said composition.

9. (Original) A composition according to claim 6 further comprising a thickener and said perfluoropolyether is present in said composition in the range of from about 0.1 to about 50 weight % based on said composition.

10. (Original) A composition according to claim 9 wherein said thickener is selected from the group consisting of poly(tetrafluoroethylene), fumed silica, and boron nitride, and combinations of two or more thereof.

11-35. (Cancelled)

36. (New) A perfluoropolyether according to claim 3 wherein A is $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_w$.

37. (New) A perfluoropolyether according to claim 3 wherein A is $\text{O}-(\text{C}_2\text{F}_4-\text{O})_w$.

38. (New) A perfluoropolyether according to claim 3 wherein A is $\text{O}-(\text{C}_2\text{F}_4-\text{O})_x(\text{C}_3\text{F}_6-\text{O})_y$.

39. (New) A perfluoropolyether according to claim 3 wherein A is $\text{O}-(\text{CF}_2\text{CF}_2\text{CF}_2-\text{O})_w$.

40. (New) A perfluoropolyether according to claim 3 wherein A is $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_x(\text{CF}_2\text{CF}_2-\text{O})_y-(\text{CF}_2-\text{O})_z$.

41. (New) A perfluoropolyether according to claim 9 wherein A is $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_w$.

42. (New) A perfluoropolyether according to claim 9 wherein A is $\text{O}-(\text{C}_2\text{F}_4-\text{O})_w$.

43. (New) A perfluoropolyether according to claim 9 wherein A is $\text{O}-(\text{C}_2\text{F}_4-\text{O})_x(\text{C}_3\text{F}_6-\text{O})_y$.

44. (New) A perfluoropolyether according to claim 9 wherein A is $\text{O}-(\text{CF}_2\text{CF}_2\text{CF}_2-\text{O})_w$.

45. (New) A perfluoropolyether according to claim 9 wherein A is $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_x(\text{CF}_2\text{CF}_2-\text{O})_y-(\text{CF}_2-\text{O})_z$.

46. (New) A perfluoropolyether according to claim 10 wherein A is $\text{O}-(\text{CF}(\text{CF}_3)\text{CF}_2-\text{O})_w$.

47. (New) A perfluoropolyether according to claim 10 wherein A is $\text{O}-(\text{C}_2\text{F}_4-\text{O})_w$.

48. (New) A perfluoropolyether according to claim 10 wherein A is $O-(C_2F_4-O)_x(C_3F_6-O)_y$.

49. (New) A perfluoropolyether according to claim 10 wherein A is $O-(CF_2CF_2CF_2-O)_w$.

50. (New) A perfluoropolyether according to claim 10 wherein A is $O-(CF(CF_3)CF_2-O)_x(CF_2CF_2-O)_y-(CF_2-O)_z$.

51. (New) A composition comprising a perfluoropolyether, which comprises perfluoroalkyl radical end groups wherein said radical has at least 3 carbon atoms per radical and is substantially free of perfluoromethyl and perfluoroethyl, and a 1,2-bis(perfluoromethyl)ethylene diradical, $-CF(CF_3)CF(CF_3)-$, is absent in the molecule of said perfluoropolyether; and said perfluoropolyether comprises repeat units derived from $O-(CF(CF_3)CF_2-O)_w$; and w is 4 to 100.

52. (New) A composition according to claim 51 further comprising a thickener and said perfluoropolyether is present in said composition in the range of from about 0.1 to about 50 weight % based on said composition.

53. (New) A composition according to claim 52 wherein said thickener is selected from the group consisting of poly(tetrafluoroethylene), fumed silica, and boron nitride, and combinations of two or more thereof.

54. (New) A composition according to claim 51 wherein said perfluoroalkyl radical has 3 to 6 carbon atoms per radical.

55. (New) A composition according to claim 52 wherein said perfluoroalkyl radical has 3 to 6 carbon atoms per radical.

56. (New) A composition according to claim 53 wherein said perfluoroalkyl radical has 3 to 6 carbon atoms per radical.